

Patent Claims

1. Supply unit for electric power and/or water derived from renewable energies
5 comprising a box type profile frame (1), characterized in that the box sides in the plane of the upper side of the box form openable solar panels (6) and the cross-shaped arrangement of the solar panels, so formed, can tilt about a horizontal axis on the profile frame (1).
- 10 2. Supply unit for electric power and/or water derived from renewable energies according to Claim 1, characterized in that various modules (24, 25, 26), working as interfaces, are built in the inside the box-type profile frame (1) so that the supply unit offers a choice of the following possibilities in accordance with the need:
 - Accumulation of electrical energy from sunlight, and/or
 - Accumulation of electrical energy from a separate wind generator, and/or
 - Pumping water from stationary, flowing stretch of water or ground water
 - Treatment of drinking water through purification of supplied dirty water, and/or
 - Delivery of electric power for different consumers
 - Direct current–Hydrogen generation through fuel cells.
- 20 3. Supply unit for electric power and/or water derived from renewable energies according to any of the preceding Claims, characterized in that the box type profile frame (1) with its base side stands on wheels (2) and on its top side (3), as seen from above, a further square, box type frame (16) is arranged, which contains a solar panel (7) and is connected to one top side of the box type profile frame (1) in such a way that it can be swivelled about a horizontal axis (8), wherein on all sides of this square-at-top frame (16), a peripheral square frame (5) each of same size, each containing a solar panel (6), is connected in a swivelling way, so that a cube is formed from the five square frames (16;5) when these are swivelled downwards,
25 and that the peripherally connected square frame (5) can be swivelled in the plane of the central square frame (16) and can be locked against the central square frame
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(16) in this swivelled condition, that the central square frame (16) can be locked in each of its swivelled position, further that in the inside space of the box type profile frame 1, on whose one side a telescopic pole or a pole, built from several segments or an openable vertical pole (10) is arranged, on which a wind mill (11) with blades (12), generator (17) and wind tail elements (15) can be mounted and which can be similarly accommodated in the inside space of the box type profile frame 1, and that the box type profile frame 1 has several box type modules (24-26), which can be inserted drawer like from one side and can be locked in the inserted position, wherein one of them contains at least an inverter/ rectifier (68) with battery (67) or a direct current-hydrogen generator with fuel cells and the electronic control unit (69) for all the electronic components, one more contains the wind mill blades (12), the generator (17) with wind mill hub (13) and wind tail element (15), and one more contains a water pump (41) and filtering device (47) with connections for supply and delivery of water.

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4. Supply unit for electric power and water derived from renewable energies according to any of the preceding Claims, characterized in that with the swivelled down central, square solar panel frame (16), which is on top side of the box type lower profile frame 1 and with the profile frame 5, which is connected to the former and is folded down at right angle to the same, a cube shaped box is formed.

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5. Supply unit for electric power and water derived from renewable energies according to any of the preceding Claims, characterized in that the box type profile frame (1), standing on wheels (2), contains three box type modules (24-26), which are adjacent to each other and fill up the space, said modules being inserted like drawers exactly into this profile frame (1), wherein at least one of the modules encloses a number of batteries (67) and also a inverter/ rectifier (68) with an electronic control unit (69) for all electronic components and at least one of the modules encloses a pump (41) with electric motor (42) and filtering device (47) for supplying drinking water.

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6. Supply unit for electric power and water derived from renewable energies according to any of the preceding Claims, characterized in that the filtering device (47) includes a UV-treatment equipment for providing drinking water and / or a reverse osmosis device.

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7. Supply unit for electric power and water derived from renewable energies according to any of the preceding Claims, characterized in that the upper box type profile frame 4, which can be swivelled about the horizontal axis (8), is supported by two gas springs (21) opposite the lower box type profile frame 1, wherein adjusting supports are placed between the upper box type profile frame 4, which can be swivelled about the horizontal axis (8) and lower box type profile frame 1, by means of which the swivelled position of the upper profile frame 4 can be locked for every position, and the profile frame 5 for the solar panels (6) is propped up by two gas springs at the lower edges of the top profile frame 4.

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15 8. Supply unit for electric power and water derived from renewable energies according to any of the Claims 5 to 7, characterized in that it includes an accompanying horizontal tubular ring (53), which stands on at least three height adjustable props (55) and can be levelled horizontally on an underground or can be anchored in a horizontal position on a base, and that the diameter of the tubular ring (53) corresponds with the diagonals between two of the four wheels (2) respectively of the equipment, said wheels(2) having a U-shaped running surface, so that the supply unit on the tubular ring (53) can be swivelled about its normal axis.

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25 9. Supply unit for electric power and water derived from renewable energies according to any of the Claims 5 to 7, characterized in that at least one of the wheels (2) can be driven by an electric motor (56) and that the electronic control unit (69) is programmable logic controlled, so that the supply unit can be tracked according to the position of the sun by means of the wheel drive, depending on the date on the calendar and the time of the day.

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10. Supply unit for electric power and water derived from renewable energies according to any of the preceding Claims, characterized in that the central solar panel can be changed in its swivelled position by means of the hydraulic piston-cylinder units or through the electric motor, and that control of these piston-cylinder units or electric motors takes place through GPS data, so that optimal tracking of the supply unit in accordance with the sun's position can be guaranteed at any place on earth.
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